

PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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| Applicant's or agent's file reference FOR FUR | al filing date (day/mont | th/year) | Priority date (day/month/year) 04 June 2002 (04.06.2002) |
| Applicant's of agent A6847PCT Internations | il filing date (adymon | 103) | 04 June 200 |
| i stion No. | ine 2005 (** | | |
| International appropriate International Internationa | ification and IPC | | |
| International application 7007002 PCT/JP2003/007002 International Patent Classification (IPC) or national class G21K 1/06, 1/00 | | | |
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| ational preliminary examination i | to Article 36. | | * |
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| This report contains indications feature | , . | • | |
| 3. This report Basis of the report | | | ticability |
| I Basis of the topos | | | aventive step and industrial applications |
| II Priority | secinion with regard to | novelty, | inventive step and industrial applicability |
| Non-establishment of | Obunon | | to novelty, inventive step or industrial applicability; |
| amity of inve | ntion | | novelty, inventive ser |
| IV Lack of unity | under Article 35(2) wi lations supporting such | ith regard statement | |
| Reasoned statement | ations supporting | | |
| V 23 34 | cited | | |
| Certain documents | temational applic | cation | |
| VI L Certain defects in | the international applic | 1 application | on |
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| VIII Certain out | | | |
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| domand | | 1 | 16 December 2003 (16.12.2003) |
| Date of submission of the demand | - 20 2003) | - 1 | |
| Date of submission of the 25 August 2003 (2 | 5.08.20037 | | 1 officer |
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/007002

| I. I | Basis o | s of the report | |
|------|-------------|---|---|
| 1. | With 1 | regard to the elements of the international application:* | |
| 1 | \boxtimes | the international application as originally filed | |
| | | the description: | |
| | | pages | , as originally filed |
| | | pages | , filed with the demand |
| | | pages, | filed with the letter of |
| | | the claims: | |
| | | pages | , as originally filed |
| | | pages | , as amended (together with any statement under Article 19 |
| | | pages | , filed with the demand |
| | | pages | filed with the letter of |
| | | the drawings: | |
| | | pages | , as originally filed |
| | | pages | |
| | | pages | filed with the letter of |
| | ☐ t | the sequence listing part of the description: | |
| | | pages | , as originally filed |
| | | pages | , med with the domains |
| | | | , filed with the letter of |
| 2. | the ir | | ollowing language which is: ernational search (under Rule 23.1(b)). |
| 3. | With | or 55.3). ith regard to any nucleotide and/or amino acid sequence eliminary examination was carried out on the basis of the sequence | disclosed in the international application, the international |
| | pren | contained in the international application in written form. | |
| | H | filed together with the international application in computer r | eadable form. |
| | Ħ | furnished subsequently to this Authority in written form. | |
| Ì | \sqcap | furnished subsequently to this Authority in computer readable | e form. |
| | | | equence listing does not go beyond the disclosure in the |
| | | The statement that the information recorded in computer been furnished. | readable form is identical to the written sequence listing has |
| 4 | | The amendments have resulted in the cancellation of: | |
| | · — | the description, pages | |
| | | the claims, Nos. | |
| | | the drawings, sheets/fig | |
| 5 | . 🖂 | This report has been established as if (some of) the amendm beyond the disclosure as filed, as indicated in the Supplement | ents had not been made, since they have been considered to go al Box (Rule 70.2(c)).** |
| | in th | this report as "originally filed" and are not annexed to thi | ice in response to an invitation under Article 14 are referred to s report since they do not contain amendments (Rule 70.16 |
| * | | nd 70.17). Ty replacement sheet containing such amendments must be referre | ed to under item 1 and annexed to this report. |



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/07002

| v. | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabilit | y; |
|----|--|----|
| | citations and explanations supporting such statement | |

| Novelty (N) | Claims | 2-6, 8-11 | YE |
|-------------------------------|--------|-----------|-------|
| | Claims | 1, 7 | NO |
| Inventive step (IS) | Claims | | YE |
| • • • | Claims | 1-11 | NC NC |
| Industrial applicability (IA) | Claims | 1-11 | YE |
| | Claims | | NC |

2. Citations and explanations

Claims 1 and 7

Document 1: EP, 1035422, A2 (Riken), 22 September, 2000 (22.09.00), Description of preferred embodiments, and JP, 2000-258598, A

Document 2: EP, 1080836, A2 (Riken), 13 March, 2001 (13.03.01), Description of preferred embodiments, and JP, 2001-62691, A

Documents 1 and 2 describe a neutron beam control apparatus using glassy carbon, etc. that has an index of refraction smaller than 1 for neutron beams.

Claims 2-6 and 8-11

Document 1 (Figs. 2 and 3) describes that columnar prisms whose sections are in the shape of almost a right triangle are so layered in a three-dimensional manner that the sides of one prism are parallel to those of another. In such a constitution, a person skilled in the art could have adopted positioning members as required. As the cutting method, "ELID cutting process," is described in document 2 ([0034]), each of the processes described in claims 8-11 is well known.